

a laser medium provided between said first reflecting surface and said third reflecting surface; and

a light source for exciting said laser medium

wherein the first ridge line is substantially orthogonal to the second ridge line where a laser beam emanating from said laser medium travels along an optical path to said first reflecting surface and is successively reflected, along an optical path, by said first, second, third, fourth, second, first, fourth and third reflecting surfaces to again enter said laser medium, said laser medium being positioned with respect to said first and second reflecting apparatus so that three reflections occur without the laser beam emitted therefrom passing through the laser medium.

13. (Amended) A self-compensating laser resonator according to Claim 11,

wherein said third reflecting apparatus comprises a reflecting mirror having a two-sided reflective coating on a transparent substrate.

Please add the following claim:

14. (NEW) The self-compensating laser of claim 1 wherein, the laser beam emanating from said laser medium initially reflects from one of said first or second reflecting surface.

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5. (NEW) A self-compensating laser resonator comprising:
- a first reflecting apparatus having a first reflecting surface and a second reflecting surface disposed at a first predetermined angle to each other and intersecting at a first ridge line;
- a second reflecting apparatus having a third reflecting surface and a fourth reflecting surface disposed at a second predetermined angle to each other and intersecting at a second ridge line, said second reflecting apparatus facing said first reflecting apparatus such that the first through fourth reflecting surfaces are facing each other; and
- a laser medium provided between said first reflecting surface and said third reflecting surface; and
- a light source for exciting said laser medium
- wherein the first ridge line is substantially orthogonal to the second ridge line where a laser beam emanating from said laser medium travels along an optical path to said first reflecting surface and is successively reflected, along an optical path, by said first, second, third, fourth, second, first, fourth and third reflecting surfaces to again enter said laser medium, said laser medium being positioned with respect to said first and second reflecting apparatus so that three reflections occur without the laser beam emitted therefrom passing through the laser medium.--